

PROJECT TITLE : ROSA
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OBJECTIVE

The objective of Project ROSA is to produce cigarettes with reduced mainstream and sidestream nitrosamine delivery. It is intended to study the influence of nitrosation inhibitors on sidestream deliveries, while mainstream nitrosamine reduction should be brought about by selective filtration.

EXPERIMENTAL

Cigarettes have been prepared from Burley tobacco (Project SPOTLESS ØS-B-BU), with increased reducing sugar levels. These will be analysed for DMN and NPY content of sidestream smoke.

This tobacco (4-ØS-B-BU) has also been treated with other reducing agents such as sorbic acid and BHA (butylated-hydroxyanisole). Cigarettes are being prepared for nitrosamine sidestream smoke analysis using this modified tobacco.

A commercial air trapping device for nitrosamines has been examined. A patent search indicates that the solid absorbent is Florisil - a magnesium silicate - and that the artifact formation inhibiting agent is Sulphamic Acid. This has been confirmed by analysis.

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